APPENDIX (II)

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1. Paper Jams

Three sensors, i.e. Paper sensor, Paper receive sensors 1 and 2, watch for any paper jam in the machine during the printing operation.
The paper jams are divided into the following four cases.

1) Paper Jam in the First Paper Feed Area

The Paper sensor checks whether the paper is correctly supplied into the machine from the Paper feed tray during the printing operation.

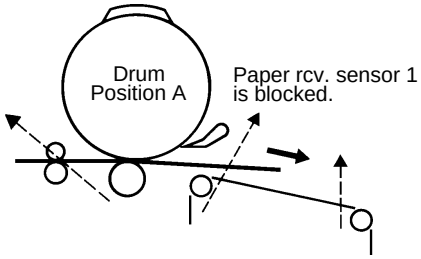
- In printing operation, if the Paper sensor does not detect any paper before the Drum comes to the Drum Position A for the third time, i.e. the Drum has turned three times without the light path of the Paper sensor blocked, the machine assumes that the paper has jammed in the first paper feed area and indicates the error code **[E 33]**.

2) Paper Jam in the Second Paper Feed Area / Paper Jam under the Drum

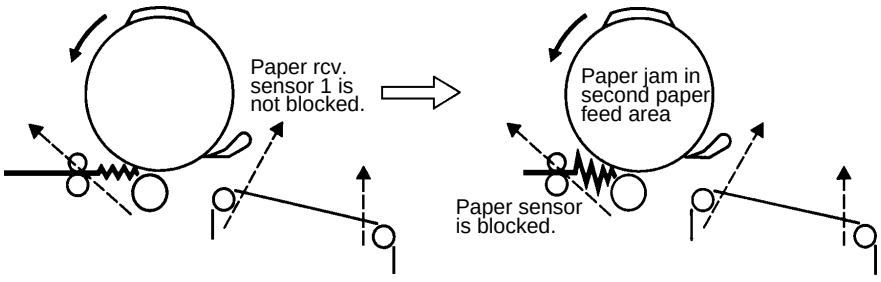
The Paper receive sensor 1 checks whether the paper is correctly discharged out from the machine during the printing operation.

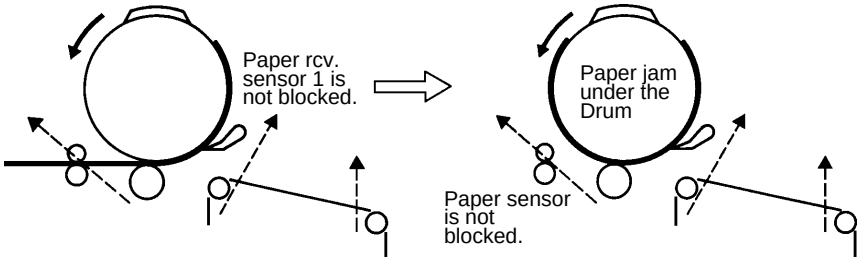
- If the light path of the Paper receiving sensor 1 is not blocked by a sheet of paper when the Drum comes to the Drum Position A, the machine assumes that the paper has jammed.
  The machine assumes that the paper has jammed in the second paper feed area if the paper sensor detects a sheet of paper at the next Drum Position A. The error code **[E 31]** is indicated.
  The machine assumes that the paper has jammed under the Drum if the Paper sensor does not detect any paper at this second Drum Position A. The error code **[E 34]** is indicated.

Normal paper feeding



First Drum Position A **Next Drum Position A**



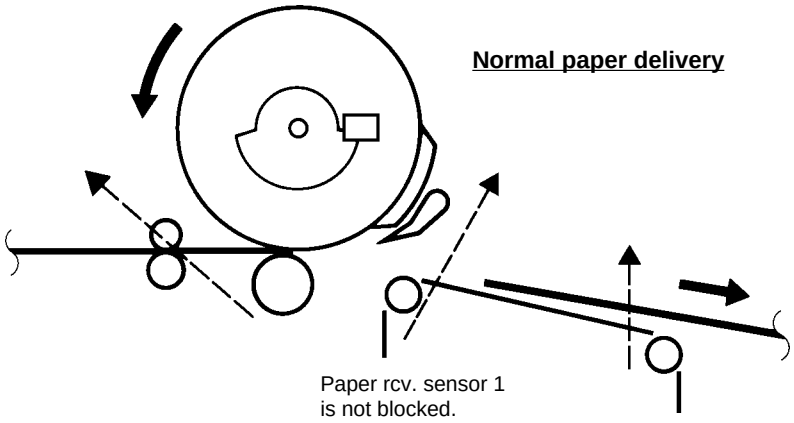


3) Paper Jam at Paper Receiving Sensor 1
4) Paper Jam at Paper Receiving Sensor 2

3) Paper Jam at Paper Receiving Sensor 1

The Paper receiving sensor 1 checks whether the printed paper is correctly delivered from the printing area onto the Suction unit.

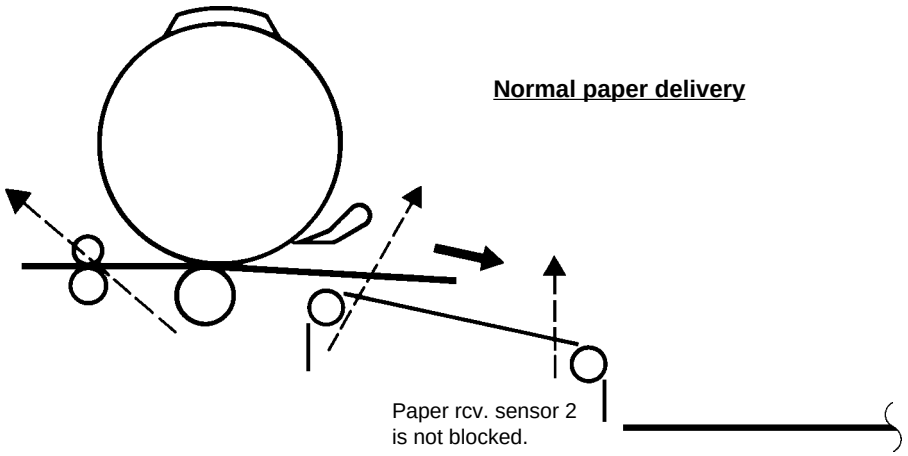
- During the printing operation, if the Paper receiving sensor 1 does not detect any paper when the condition of the light path of the Pressure detect sensor changes from "open" to "blocked", the machine assumes the paper delivery on the Suction unit is normal.
  If the Paper receiving sensor 1 detects a sheet of paper at the above condition, the machine assumes the paper has jammed at the Paper receiving sensor 1 and indicates the error code **[E 32]**.



4) Paper Jam at Paper Receiving Sensor 2

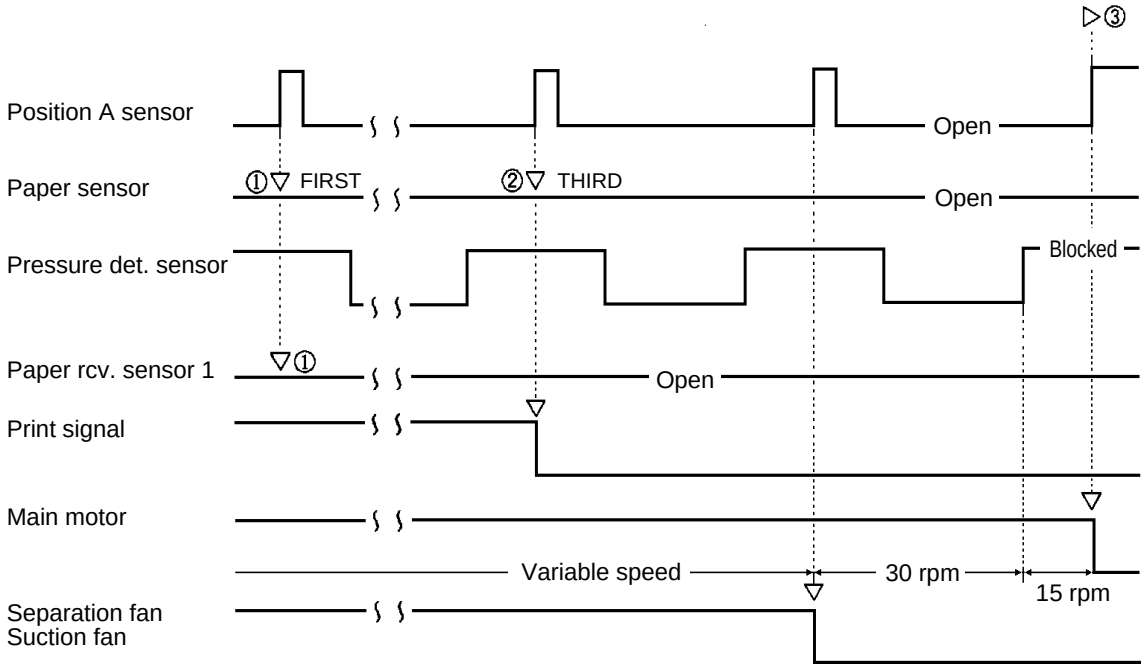
The Paper receiving sensor 2 checks whether the printed paper is correctly delivered on the Suction unit to the Paper receiving tray.

- During the printing operation, if the condition of Paper receiving sensor 2 changes from "paper detection" to "no paper detection" or vice versa, before the Drum Position A is checked twice, the machine assumes the paper delivery onto the Paper receiving tray is normal.
  If the Paper receiving sensor 2 keeps detecting a sheet of paper while the Drum Position A is checked twice, the machine assumes the paper has jammed at the Paper receiving sensor 2 and indicates the error code **[E 32]**.



- Timing Chart -

Paper Jam in the First Paper Feed Area



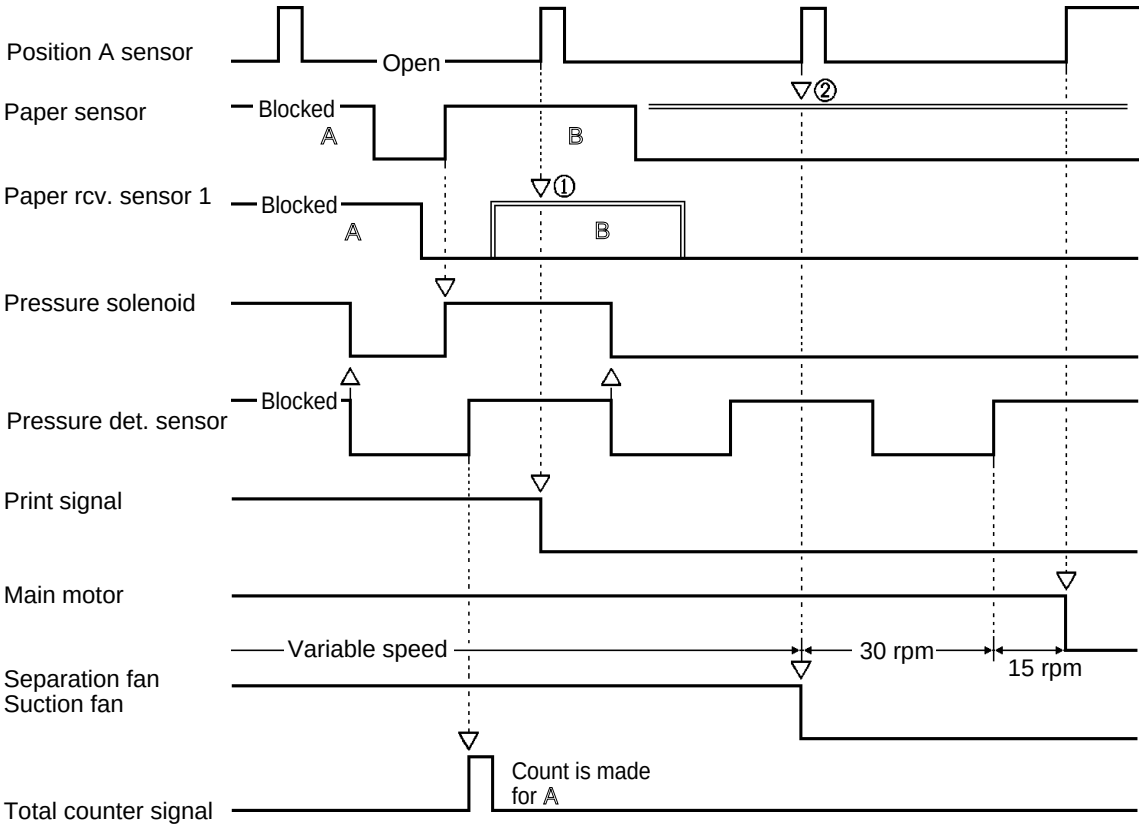
① If the Paper sensor detects no paper, the Paper receiving sensor 1 should detect no paper.
If the Paper receiving sensor 1 detects paper, the machine assumes that the paper has jammed at the Paper receiving sensor 1, whose timing chart is shown on page APX (II)-5.

② If the Paper sensor has detected no paper by the time the Drum makes its third turn, the machine assumes that the **paper has jammed at the First paper feed area**, and turns OFF the Print signal.

③ When the Drum stops, the error code **[E 33]** is displayed.

- Timing Chart -

Paper Jam in the Second Paper Feed Area / Paper Jam under the Drum

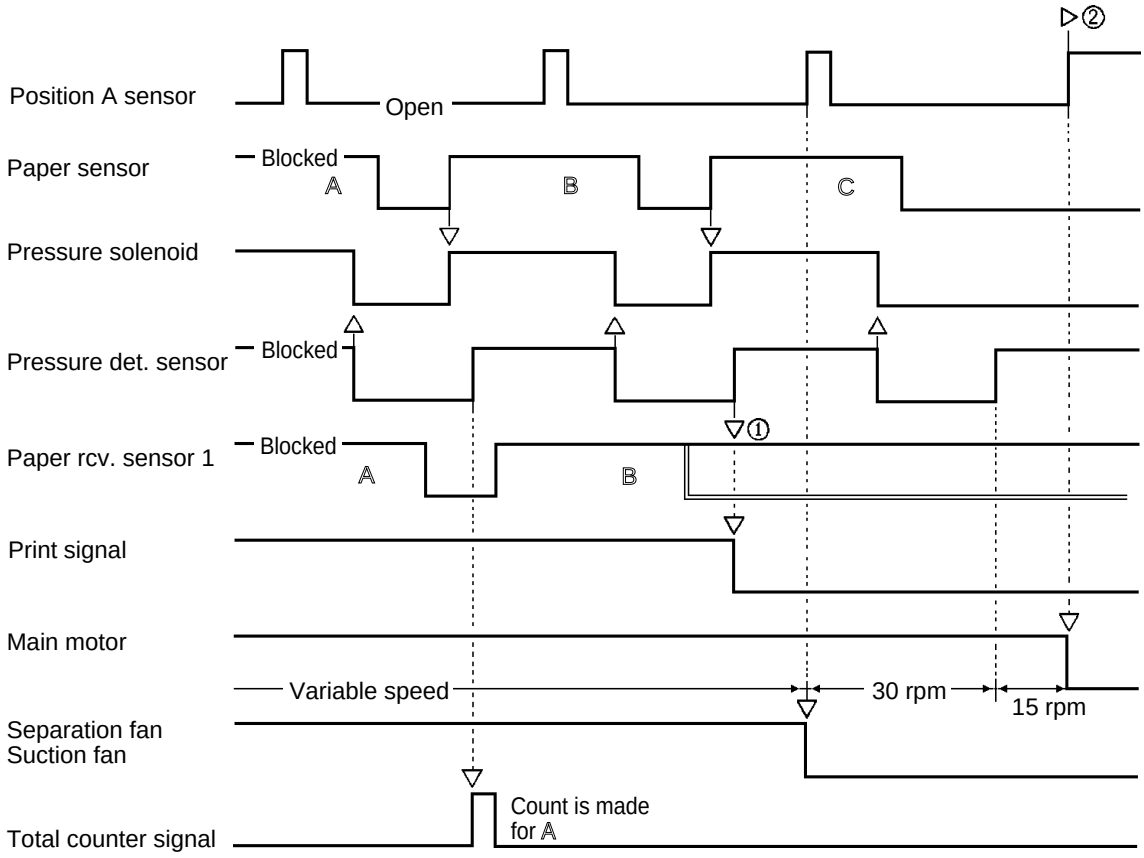


① If the Paper receiving sensor 1 detects no paper, the machine assumes that the paper has jammed, and turns the Print signal OFF.

② At the next Drum Position A, the status of the Paper sensor is checked and if the Paper sensor detects a paper, the machine assumes that the **paper has jammed at the Second paper feed area**, and indicates the error code **[E 31]**.
But if the Paper sensor detects no paper, the machine assumes the **paper has jammed under the Drum**, and indicates the error code **[E 34]**.

- Timing Chart -

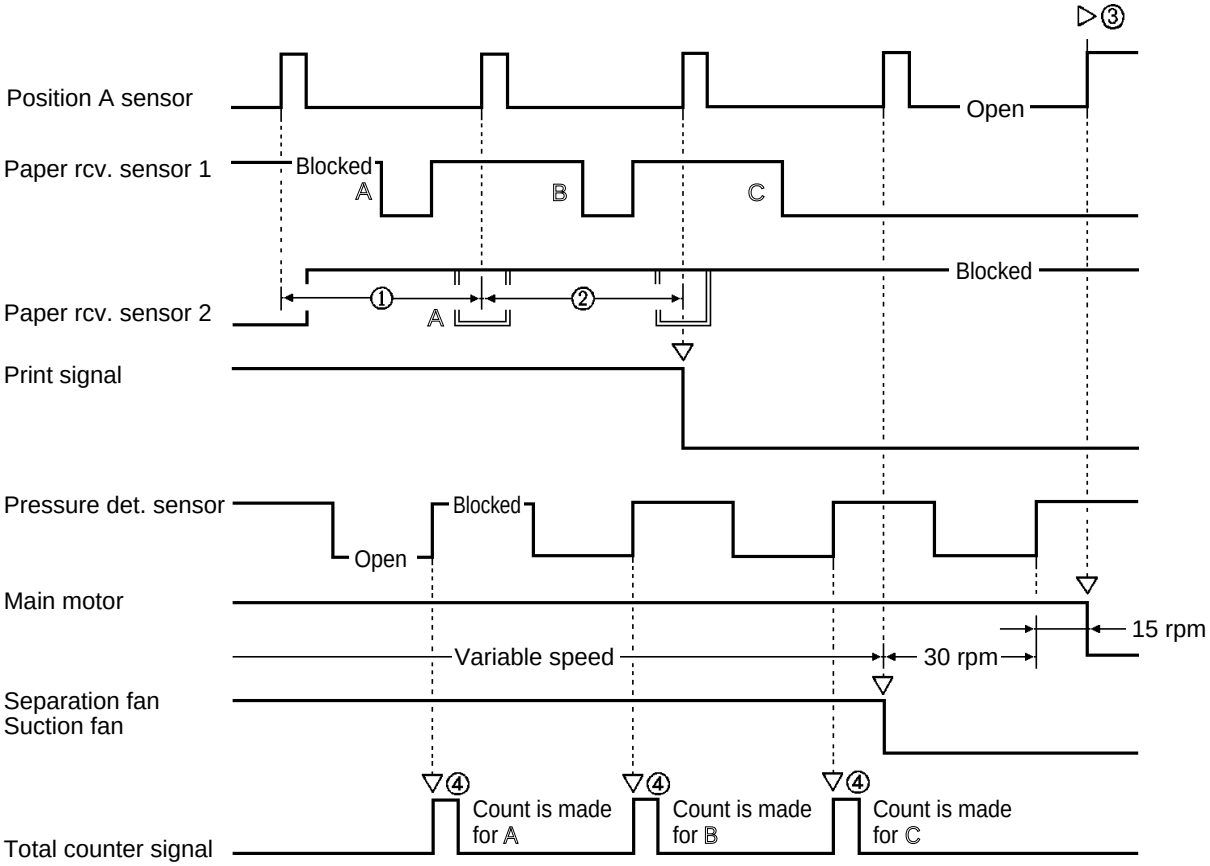
Paper Jam at Paper Receiving Sensor 1



① If the Paper receiving sensor 1 still detects a sheet of paper, the machine assumes the **paper has jammed at the Paper receiving sensor 1**, and turns the Print signal OFF.
② When the Drum stops, the error code **[E 32]** is displayed.

- Timing Chart -

Paper Jam at Paper Receiving Sensor 2



① Between the respective Drum Positions A, it is checked if the light path of the Paper receiving sensor 2 is opened.
② If the Paper receiving sensor 2 keeps detecting a sheet of paper while the Drum Position A is checked twice, the machine assumes the paper has jammed at the Paper receiving sensor 2, and turns the Print signal OFF.
③ When the Drum stops, the error code **[E 32]** is displayed.
④ A sheet is assumed to be printed each time the status of the light path of the Paper receiving sensor 1 changes from "Blocked" to "Open" after it is confirmed that of the Paper sensor changed from "Blocked" to "Open".
Then as the light path of the Pressure detection sensor is blocked, the Total counter signal is turned ON to add one count on the Total counter.